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APPLICATION NO. FILING DATE		G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,979	09/22	2/2003	Yoshiaki Sakatani	Q77382	4959	
23373	7590	02/06/2006		EXAM	EXAMINER	
	MION, PLI		WARTALOWICZ, PAUL A			
SUITE 800	SILVANIA	AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHING	FON, DC 20	0037	1754			
				DATE MAILED: 02/06/2006	DATE MAILED: 02/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		N/				
	Application No.	Applicant(s)				
	10/664,979	SAKATANI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul A. Wartalowicz	1754				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	n the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [2]  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statuf Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MONI te, cause the application to become ABA	CATION.  uply be timely filed  ITHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 223	September 2003.					
·—	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-8 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdra</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-8 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/</li> </ul>	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on 22 September 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	s/are: a)⊠ accepted or b) e drawing(s) be held in abeyan ction is required if the drawing(	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Apority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 2/18/04,04/19/04,06/16/04	Paper No(s	ummary (PTO-413) )/Mail Date iformal Patent Application (PTO-152) 				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ichinose et al. (E.P. 1031538).

Ichinose et al. teach a method for producing a titanium oxide (page 4, lines 21-24), which comprises the steps of adding hydrogen peroxide solution to titanium tetrachloride or titanium sulfate (page 6, lines 38-39), then a basic substance at a temperature of 40° or lower (page 4, lines 35-36) with stirring (page 9, lines 52), wherein the hydroxyl group provided by the base is in a molar amount of at least 2 times of the titanium atom in the titanium compound (page 9, lines 12-15), is added to the mixture to obtain a precipitate, wherein the precipitate is washed, filtered, charged with sodium hydroxide (page 12, lines 7-10), the mixture is then left to stand at room temperature (page 6, lines 50-52), and then heated at a temperature of 80°C or higher

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(washing and drying at room temperature comprise aging, aged in the presence of a base (sodium hydroxide), page 6, lines 50-55, page 10, lines 35-48).

Claims 1-5 and 7 are rejected under 35 U.S.C. 102(a) as being anticipated by Sakatani et al. (E.P. 1279643).

Sakatani et al. teach a method for producing titanium oxide wherein titanium oxysulfate is mixed with hydrogen peroxide, the resulting mixture is mixed with ammonia (is added into and reacted with is equivalent to stirring, page 3, lines 30-35) in an amount exceeding a requiring amount for converting titanium compound (ammonia is added such that the hydroxyl group is in a molar amount of more than 1 times of the titanium atom, page 3, lines 30-35) wherein the resulting product is washed, dried and then calcined at a temperature of from 300°C to 500°C (washing and drying comprises aging, page 3, lines 30-35).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. 6107241 teach a method for producing titanium oxide (col. 3, lines 3-6) wherein ammonia is added to titanium tetrachloride, then hydrogen peroxide is added to the mixture (col. 2, lines 45-55); the mixture is dried and fixed on a substrate (drying and fixing on a substrate comprise aging, col. 3, lines 3-6) and then heated to a temperature of 250°C or above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Wartalowicz whose telephone number is (571) 272-5957. The examiner can normally be reached on 8:30-6 M-Th and 8:30-5 on Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Wartalowicz January 13, 2006 COLLEEN P. COOKE PRIMARY EXAMINER